

ABSTRACT OF THE DISCLOSURE

An infrared emitter element includes: at least one emitter tube made of silica glass, which has two ends; at least one electrical conductor arranged in the emitter tube as a radiation source; a cooling tube made of silica glass, which surrounds the at least one emitter tube spaced therefrom and which is connected to the at least one emitter tube directly at its ends, such that in the region of the electrical conductor at least one flow-supporting channel is formed between the at least one emitter tube and the cooling tube; and a metallic reflector. The cooling tube is completely covered with the reflector on its side facing away from the emitter tube. The infrared emitter element may be used as a flow-through heater, such as a heat exchanger, especially for high-purity fluids.

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